

Product Name: Mifepristone

Catalog No.: 1479

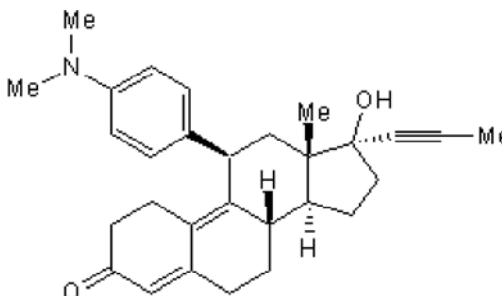
Batch No.: 2

CAS Number: 84371-65-3

IUPAC Name: (11 β ,17 β)-11-[4-(Dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₅NO₂
Batch Molecular Weight: 429.6
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
ethanol to 50 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +126.2 (Concentration = 0.5, Solvent = DCM)
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	81.08	8.21	3.26
Found	81.27	8.19	3.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective antagonist at progesterone (PR) and glucocorticoid (GR) receptors *in vitro* and *in vivo*. Is a silent antagonist at PR and has a higher affinity than progesterone. Has higher affinity for GR than dexamethasone (Cat. No. 1126).

Physical and Chemical Properties:

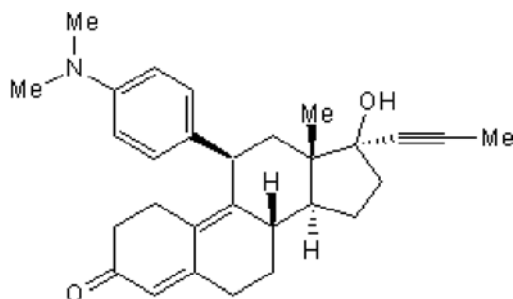
Batch Molecular Formula: C₂₉H₃₅NO₂

Batch Molecular Weight: 429.6

Physical Appearance: Off White solid

Minimum Purity: $\geq 99\%$

Batch Molecular Structure:



References:

Mao et al (1992) Molecular mechanism of RU 486 action: a review. *Mol.Cell.Biochem.* **109** 1. PMID: 1614417.

Gagne et al (1985) RU 38486: a potent antigluocorticoid *in vitro* and *in vivo*. *J.Steroid Biochem.* **23** 247. PMID: 2864478.

Schriber et al (1983) Binding of the anti-progestin RU 486 to rat ovary steroid receptors. *Contraception* **28** 77. PMID: 6627946.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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